

Receiving Report

Date: 15-07-10

Batch No: 132717

Supplier: Core

Dart P/O: 29084

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☒ No ☐
 Receipt: Cash ☐ Cr ☒
 New Supplier Yes ☐ No ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☒ No ☐
 Shipment Complete: Yes ☒ No ☐ N/A ☒
 QC18 Inspection ☐ N/A ☒
 Work Order ☐ N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver

QC12



Production/Admin:

Date _____
 Received/Costing _____
 Initial _____

Location _____



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO29084**

Purchase Order Date 7/9/2015

PO Print Date 7/9/2015

Page Number 1 of 2

Order From :

VU-COR001

Ship To : DART AEROSPACE LTD

C.O.R.E. AVIATION SERVICES
16305 E. TWIN ACRES DRIVE
GILBERT, AZ 85297
US

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

PAID
FCA

Contact Name Mr. Kaizer Husein
Vendor Phone 480 497 6136

Ship To Contact
Ship To Phone
Ship Via: FedEx Overnight collect
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 10
Currency USD
FOB FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	AN4C47A	Bolt	7/13/2015 Yes 7/13/2015		30.00 Each	\$16.50	\$495.00

Line Total: \$495.00

2	AN3C40A	Bolt	7/13/2015 Yes 7/13/2015	FN	20.00 Each	\$17.50	\$350.00
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Line Total: \$350.00

PO Instructions: Fedex Acct# 151793240

Note:

7/9/2015

C.O.R.E. Aviation Services, Inc.

16305 E. TWIN ACRES DRIVE

GILBERT, AZ 85298

USA

Ph: 480-497-6136 Fax: 480-497-3568

Email: sales@coreaviation.com

Packing List

Ship Doc : CA150709-1

Printed : 07/09/2015

No. Items : 2

Page : 1 of 1

Bill To:

Dart Aerospace Ltd.
1270 Aberdeen St.
Hawkesbury, ON K6A 1K7
Canada

Ship To:

Dart Aerospace Ltd.
1270 Aberdeen St.
Hawkesbury, ON K6A 1K7
Canada

Sales Order : 29084

AWB : 774018964318

Resale : Not On File

Order Date : 07/09/2015

Customer# : DALD

Buyer :

Ship Date : 07/09/2015

Terms : N 10

Contact : 613-632-9577

Ship Via : FEDEX

Sales Person: Jonathan Kohl

Weight :

Ship Account: 151793240

FOB : GILBERT, AZ

No. Boxes :

Dimensions :

Item	Part Number/Description	CD	Location	UM	Ord	B/O	Shipped	Cust. PO#
1	AN4C47A BOLT NSN:5306-00-543-5079	NE	HC202	EA	30	0	30	29084
2	AN3C40A BOLT	NE	HC202	EA	20	0	20	29084

SOS-07-10

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TERMS AND CONDITIONS OF SALE

MATERIALS ON THIS ORDER CONFORM TO SPECIFICATIONS AS LISTED ON YOUR PO/RO.

MATERIAL IS SUBJECT TO YOUR INSPECTION

OUR TERMS ARE AS PER OUR MUTUAL LETTERS OF AGREEMENT.

OVERDUE INVOICES WILL BE SUBJECT TO 1.5% INTEREST ON OVERDUE AMOUNTS.

NO RETURN OR REFUNDS AFTER 10 DAYS FROM INVOICE DATE.

DAMAGE OR SHORTAGE CLAIMS MUST BE MADE WITHIN 10 DAYS OF INVOICE DATE.

NO RETURNS ALLOWED WITHOUT PRIOR APPROVAL. RETURNED GOODS COULD BE

SUBJECT TO A RESTOCK CHARGE.

COUNTRY OF ORIGIN OF GOODS : USA

TYPE OF GOODS : AIRCRAFT PARTS

HARMONIZED CODE : 8803-20-0050

C.O.R.E. Aviation Services, Inc.

16305 E. TWIN ACRES DRIVE

GILBERT, AZ 85298

USA

Ph: 480-497-6136 Fax: 480-497-3568

EMail: sales@coreaviation.com

DUPLICATE

Invoice

Invoice : CA150709-1

Date : 07/09/2015

No. Items : 2

Page : 1 of 1

To:
Dart Aerospace Ltd.
1270 Aberdeen St.
Hawkesbury, ON K6A 1K7
Canada

Ship To:
Dart Aerospace Ltd.
1270 Aberdeen St.
Hawkesbury, ON K6A 1K7
Canada

Sales Order : 29084	AWB : 774018964318	Resale : Not On File
Your Order# : 29084	Customer# : DALD	Buyer :
Order Date : 07/09/2015	Terms : N 10	Contact : 613-632-9577
Ship Date : 07/09/2015	Sales Person: Jonathan Kohl	Weight :
Ship Via : FEDEX	FOB : GILBERT, AZ	No. Boxes :
		Dimensions :

Item	Part Number/Description	Shipped	BackOrd	CD	Unit Price	Total Amt
1	AN4C47A BOLT NSN: 5306-00-543-5079	30 ✓	0	NE	\$16.50 EA	\$495.00 ✓
2	AN3C40A BOLT	20 ✓	0	NE	\$17.50 EA	\$350.00 ✓

KH

801507-10

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TERMS AND CONDITIONS OF SALE

MATERIALS ON THIS ORDER CONFORM TO SPECIFICATIONS AS LISTED ON YOUR PO/RO.
MATERIAL IS SUBJECT TO YOUR INSPECTION
OUR TERMS ARE AS PER OUR MUTUAL LETTERS OF AGREEMENT.
OVERDUE INVOICES WILL BE SUBJECT TO 1.5% INTEREST ON OVERDUE AMOUNTS.
NO RETURN OR REFUNDS AFTER 10 DAYS FROM INVOICE DATE.
DAMAGE OR SHORTAGE CLAIMS MUST BE MADE WITHIN 10 DAYS OF INVOICE DATE.
NO RETURNS ALLOWED WITHOUT PRIOR APPROVAL. RETURNED GOODS COULD BE
SUBJECT TO A RESTOCK CHARGE.

#####

COUNTRY OF ORIGIN OF GOODS : USA

TYPE OF GOODS : AIRCRAFT PARTS

HARMONIZED CODE : 8803-20-0050

#####

Sub Total :	\$845.00
Tax Total :	
S + H :	\$0.00
Balance :	\$845.00

CERTIFICATE OF CONFORMANCE

C.O.R.E. Aviation Services, Inc.

16305-E. TWIN ACRES DRIVE, GILBERT, AZ 85298, USA

Phone: 480-497-6136 Fax: 480-497-3568 FAA Sta. #: Web:

Invoice : CA150709-1
Date : 07/09/2015
PO : 29084
Issued By : Jonathan Kohl
Page : 1 of 1

THIS IS TO CERTIFY THAT ALL GOODS ON C.O.R.E. INVOICE WERE SHIPPED IN ACCORDANCE WITH THE PART SPECIFICATIONS ON CUSTOMERS PO & TO THE BEST OF OUR KNOWLEDGE AND BELIEF, MEET THOSE STANDARDS.

ITEM(S) WERE DETERMINED TO BE IN STATED CONDITION BY VISUAL CONDITION AND OR IN ACCORDANCE WITH RECEIVING RECORDS.

ALL DETAILED RECORDS ARE KEPT ON FILE AT C.O.R.E. AVIATION SERVICES FOR ANY FUTURE CUSTOMER INSPECTION.

Item	Part Number/Description		Shipped	CD
1	AN4C47A Lot:15544	BOLT	30	NE
2	AN3C40A Lot:9961608	BOLT	20	NE



KAIZER HUSEIN



Element Materials Technology
15062 Bolsa Chica
Huntington Beach, CA
92649-1023 USA

P 714 892 1961
F 714 892 8159
T 888 786 7555
info.hb@element.com
element.com

Contact: Brad Ramsey
Sierra Pacific Supply Company
P.O. Box 4848
1801 West El Seg
COMPTON, CA 90224-4848

TEST CERTIFICATE — EAR-CONTROLLED DATA

Date: 12/21/2012
Purchase Order Number: SPM1461F
Work Order Number: SIE011-12-18-07612-1

Part No.:	AN3C40A REV. 2
Size:	.190-32 X 4.062 HEX CAP
Lot No.:	9961608
Material:	431 SS
Heat No.:	G18835
Specification:	AN3C40A REV. 2, NASM 6812 REV. 2

AXIAL TENSILE (ROOM TEMPERATURE)

Requirement:	2,210 LBS MIN.	
Test Method:	MIL-STD-1312-8A / NASM 1312-8(2)	
Sample No.	Result (lbs.)	Location of Fracture
1	3,417	THREAD
2	3,429	THREAD
3	3,417	THREAD

DOUBLE SHEAR

Requirement:	4,250 LBS MIN.	
Test Method:	MIL-STD-1312-13A/NASM 1312-13(1)	
Sample No.	Diameter	Results (lbs)
1	.189	4,454
2	.189	4,401
3	.189	4,473

MATERIAL CONFORMS TO SPECIFICATION

This document contains technical data whose export and re-export/ retransfer is subject to control by the U.S. Department of Commerce under the Export Administration Act and the Export Administration Regulations. The Department of Commerce's prior written approval may be required for the export or re-export/retransfer of such technical data to any foreign person, foreign entity or foreign organization whether in the United States or abroad.



Respectfully submitted

15062 Bolsa Chica, Huntington Beach, CA 92649
(714) 892-1961 ph • (714) 892-8159 fax www.element.com

Megan E. Wolf
Megan E. Wolf
Quality Administrator

The information contained in this certification represents only the material submitted and is certified only for the quantities tested. Reproduction except in full is reserved pending written approval. The recording of false, fictitious, or fraudulent statements or entries on the certificate may be punishable as a felony under federal law. All testing was performed in a mercury free environment. All testing performed in accordance with the latest edition of the applicable ASTM, or other Federal Test Method in effect at the time of test.

Heat Treating, Inc.

CERTIFICATION

331 W. 168th Street • Gardena, CA 90248-2732

Tel: (310) 532-3705 • Fax: (310) 532-3750

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Sierra Pacific Supply Co. Inc
P.O. Box 4848
Compton, CA 90224

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RECEIVED 11/20/2012		PURCHASE ORDER NO. SPM1461A		SHIP VIA Our Truck		CERTIFICATION NO. 79003	
QUANTITY		DESCRIPTION		TREATMENT			
562 pcs 26 lbs 1 pan		AN3C40A Rev. 2 .190-32 x 4.062 Hex Cap Lot# 9961608 Material: 431 SS Heat# G18835		Normalize & Heat Treat To 26-32 R/C Per AMS-H-6875 Spec NO BLACK OIL		ALL PARTS ON THIS ORDER HAVE BEEN PROCESSED IN A MERCURY - FREE ENVIRONMENT	

PROCEDURE

1 PREHEAT 1500 °F TIME AT TEMP. 1/2 Hr FURNACE NO. H12
2 AUS. TEMP. 1800 °F TIME AT TEMP. 1/2 Hr FURNACE NO. H12
3 TEMPER 1100 °F TIME AT TEMP. 2 Hrs FURNACE NO. D4
TEMPER _____ °F TIME AT TEMP. _____ FURNACE NO. _____
HOMOGENIZE _____ °F TIME AT TEMP. _____ FURNACE NO. _____
SOL. ANNEAL _____ °F TIME AT TEMP. _____ FURNACE NO. _____
AGE HARDEN _____ °F TIME AT TEMP. _____ FURNACE NO. _____
FULL ANNEAL _____ °F TIME AT TEMP. _____ FURNACE NO. _____
SUB. ANNEAL _____ °F TIME AT TEMP. _____ FURNACE NO. _____
NORMALIZE _____ °F TIME AT TEMP. _____ FURNACE NO. _____
STRESS RELIEVE _____ °F TIME AT TEMP. _____ FURNACE NO. _____
CARBURIZE _____ °F TIME AT TEMP. _____ FURNACE NO. _____
DIFFUSE _____ °F TIME AT TEMP. _____ FURNACE NO. _____
SUB ZERO _____ °F TIME AT TEMP. _____ FURNACE NO. _____
INDUCTION _____

TEST RESULTS

SAMPLE ☒ 100% ☐

HARDNESS
30/31 HRC

OTHER

I do hereby certify that the above
parts have been processed as
required per Purchase Order and/or
Specifications.

BY: Garrett Tom
TITLE: GARRETT TOM, Q.C. MGR



"Sample (s): Customer Supplied"

TEST REPORT



ATLAS TESTING LABORATORIES, INC.

9820 6th Street, Rancho Cucamonga, CA 91730

909-373-4130

FAX 909-373-4132

DG

PO# SPM1461B

DATE: 12/05/12

ATL# 247403

CLIENT: SIERRA PACIFIC SUPPLY CO.
ATTN: BRAD
1801 W. EL SEGUNDO BLVD.
COMPTON, CA 90222-1096

PN# AN3C40A REV. 2 SIZE: .190-32 X 4.062
LOT# 9961608 HEAT# G18835
QTY: 3 PCS. HEX CAP

ALLOY: 431 S/S

SPEC: CUST REQ.

HARDNESS DETERMINATION: (METHOD: ASTM-E18/11)

ACTUAL: #1 32 HRC
ACTUAL: #2 30 HRC
ACTUAL: #3 32 HRC

MIN REQ: 26 HRC
MAX REQ.: 32 HRC

Note: Results are average of 3 readings.

Remarks: Conforms to customer requirements.

Respectfully Submitted:

Angie Rojas
Angie Rojas, Quality Assurance

Date:

12/05/12

Page 1 of 1

ATLAS TESTING SUBMITS THIS REPORT AS THE CONFIDENTIAL PROPERTY OF OUR CLIENT.
REPRODUCTION IS AUTHORIZED, BUT ONLY IF IN FULL. THE RECORDING OF FALSE, FICTITIOUS OR
FRAUDULENT INFORMATION TO THIS REPORT MAY BE PUNISHABLE UNDER FEDERAL LAW.





PROCESS CONTROL LABORATORY

2520-NO. ONTARIO ST., Building D BURBANK, CALIFORNIA 91504

(818) 840-8056

FAX (818) 840-8753

83830

TERMS: 1% within 10 days. Note 30 days. Net and Past Due thereafter subject to a service of 1.5% per month (18.0% per annum) for balances past due 30 days and over. Terms do not apply to C.O.D. 33830

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SIERRA PACIFIC SUPPLY
P.O. BOX 4848
COMPTON. CA 90224

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P.O.	TERMS	SHIPPED VIA	SHIPPER NO.	MATERIAL	DATE RECEIVED
SPM1461G	NET 30				12/27/2012
QUANTITY	DESCRIPTION AND/OR PART NUMBER			SHIPPED	
548	AN3C4CA REV.2 LOT#9261608 HT#G18835 MAT.431SS				
	PASSIVATE PER QQ-P-35				
	SURCHARGE H.W D.S.				



P.C.L. LIABILITY SHOULD BE LIMITED TO THE COST OF DIRECT LABOR AND MATERIAL DAMAGE OR THREE TIMES OUR PROCESSING CHARGES ON MATERIAL, OR WHICH IS LESS.
THE PURCHASER AGREES THAT IN THE EVENT HE FAILS TO PAY HIS ACCOUNT AND THE MATTER IS REFERRED TO AN ATTORNEY TO ENFORCE PAYMENT, HE WILL, IN ADDITION TO THE SUMS DUE, PAY A REASONABLE ATTORNEY'S FEES AND ANY COURT COST OF ENFORCEMENT.

TOTAL

WE HEREBY CERTIFY THE ABOVE LISTED PARTS ARE PROCESSED IN ACCORDANCE WITH APPLICABLE SPECIFICATION. TEST REPORTS ON FILE.

QQ-P-35

SPEC. NO. _____

TYPE _____ CLASS _____

BY *Jose O. Oliveras*

Jose Oliveras
Inspector

WE HEREBY CERTIFY THE ABOVE LISTED PARTS ARE PROCESSED IN ACCORDANCE WITH.

SPEC. NO. _____

TYPE _____ CLASS _____

BY _____

WE HEREBY CERTIFY THE ABOVE LISTED PARTS ARE PROCESSED IN ACCORDANCE WITH APPLICABLE SPECIFICATION. TEST REPORTS ON FILE.

SPEC. NO. _____

TYPE _____ CLASS _____

BY _____

ANY DISCREPANCY MUST BE REPORTED WITHIN 24 HOURS

RECEIVED /

SUBJECT TO CONDITIONS OF LIABILITY ON PACKING SLIP



Dunkirk Specialty Steel, LLC

A Universal Stainless Company

P.O. Box 319

830 Brigham Rd.

Dunkirk, NY 14048

Quality System Registered to
ISO9001 and AS9100

Material Certification

MILL ORDER: 0045294
PART NUMBER: S84200
P.O. NUMBER: 47043-16

P.O. DATE: 4/5/2012 1

PAGE NUMBER: 1 of 1

PRINTED: 8/2/12 10:25

S FRY STEEL COMPANY
O T P.O. BOX 4048
L O
D

SANTA FE SPRINGS, CA 90670

S FRY STEEL CO
H T C/O C.M.I. FREIGHT TRANS
I O 4201 WEST 36TH ST
P

CHICAGO, IL 60623

Material Description: STAINLESS STEEL ROUND BAR 431 EAF+AO ANNEALED CENTERLESS GROUND AMS 2303F, ASTM A484-11, MIL-S-18732D, AMS-S-18732B, AMS 5628F, McDonnell Douglas DMS-1565G (except sonic), Hi Shear #115J (Type II, chemistry only), Federal QQ-S-763C Am. 2 (431 cond. A, exc. hard. & impact), waive CIM, ASTM A276-10 (431).

Size: .2500 DIAM X 132.0000 MIN/ 156.0000 MAX RANDOM LENGTH

Heat Number	FML	Wt	C	0.15	MN	0.60	SI	0.35	S	0.004	P	0.020
G18835			CR	16.12	W	<0.05	V	0.03	NI	2.19	MO	0.06
			CO	<0.05	CU	0.15	SN	0.010	FB		CS	0.02
			TA		AL	<0.01	TI	<0.01	FE		S	
			O		MC		CA		SE		ZR	
			AG		BI		N	0.048	H		CQ	

HARDNESS (AS SHIPPED): 250 BHN

TENSILE CAPABILITY: 1875F/1HR/OQ+1175F/3HR/AC

T/S KSI	Y/S KSI	SEL
152.4	114.7	18.9

TENSILE CAPABILITY: 1875F/1HR/OQ + -100F/2HR/AC+550F/2HR/AC + 550F/2HR/AC

T/S KSI	Y/S KSI	SEL	SEL
214.9	158.4	16.0	59.0

HARDENABILITY: Rc 49.0

MICRO TEST: ACCEPTABLE

MACRO ETCH TEST: ACCEPTABLE

GRAIN SIZE: 8

FERRITE: <4%

MAGNETIC PARTICLE F/S = 0/0

KNOWINGLY RECORDING FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. S# 4200

MELT SOURCE: UNIVERSAL/DUNKIRK

CHEMICAL BALANCE IS P

MATERIAL MELTED IN THE USA BY UNIVERSAL STAINLESS & ALLOY PRODUCTS, BRIDGEVILLE, PA

MATERIAL MANUFACTURED IN THE USA

FRY STEEL CO. CERTIFIES THAT THIS IS
A TRUE COPY OF THE ORIGINAL MILL TEST
REPORT NOW ON FILE
RECEIVED AND INSPECTED

AUG 09 2012

BY Chip Sanjivani
CHIP SANJIVANI, QMS MANAGER

/S/John M. Berry

/S/John M. Berry

Prepared by: John M. Berry, QA

John M. Berry, QA Technician

Date

8/2/12

Refer and manufactured in compliance with DFARS 252.225-7014 A17.1. Melted by USAP in Bridgeville, PA, USA. Certification IAW DIN 50 049 / EN 10204 3.1. Material complies with EU directive 2002/95/EC (RoHS). The test results shown are certified to be a correct statement of records that were derived from testing samples of the material. Results meet applicable specifications. No welding was performed on the material supplied on this order. Material is free from mercury contamination. Material is of NAFTA origin. This material was produced under the Dunkirk Specialty Steel Quality Management System documented in QP Manual, Rev 6 dated 1/6/2012, conforming to NCA-3800. Material testing was performed as applicable in accordance with ASTM A370, A604, C8, E10, E18, E23 & F112. Federal QQ-S-763C Am. 2 (431 cond. A, exc. hard. & impact), waive CIM, ASTM A276-10 (431). The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal law.

918835

1/4 RD



Handwritten signature/initials

BUTLER, INC.

1600 W. 166th STREET
GARDENA, CA 90247

PACKING LIST

Customer No.: C.O.R.E

Bill To: **CORE AVIATION SERVICES, INC.**
16305 E. TWIN ACRES DR.
GILBERT, AZ 85298

Ship To: **CORE AVIATION SERVICES, INC.**
16305 E. TWIN ACRES DR.
GILBERT, AZ 85298

Date		Ship Via	F.O.B.	Terms	
11/13/12		UPS	Origin		
Purchase Order Number		Order Date	Sales Person	Our Order Number	
STK120605		06/05/12		15544	
Quantity		Item Number	Description	Unit Price	Amount
Required	Shipped	B.O.			
1000	500	500 AN4C47A	LOT 15544		

BUTLER INC.

1600 W. 166th STREET

Gardena, CA 90247



PERRY JOHNSON
REGISTRARS, INC.
ISO 9001 REGISTERED

BUTLER INC.

1600 W. 166th STREET
GARDENA, CALIFORNIA 90247
(310) 323-3114 / FAX (310) 324-0914



PERRY JOHNSON
REGISTRARS, INC.
ISO 9001 REGISTERED

CAGE # 59053

C.O.R.E. AVIATION SERVICES
16305 E. TWIN ACRES DRIVE
GILBERT, AZ 85298

CERTIFICATE OF COMPLIANCE

BUYER ORDER NO.: STK120605 ITEM: 1

NSN #: NA PART NUMBER: AN4C47A REV: 2

DESCRIPTION: BOLT, HEX HEAD, .2500-28 x 4.906, 431, PASSIVATE

SPECIFICATIONS: NASM6812-3, ASTM A 493-09, AMS-H-6875B, AMS2700E

QUANTITY: 500 LOT #: 15544 HEAT #: G18835

BUTLER INC. HEREBY CERTIFIES THAT THIS LOT HAS BEEN PRODUCED, SAMPLED, INSPECTED, TESTED, MARKED AND PACKAGED IN ACCORDANCE WITH ALL CONTRACT, DRAWING AND SPECIFICATION REQUIREMENTS. FURTHERMORE, BUTLER INC. CERTIFIES THAT DOCUMENTED EVIDENCE OF COMPLIANCE WITH ALL CONTRACT, DRAWING AND SPECIFICATION REQUIREMENTS APPLICABLE TO THIS LOT IS ON FILE AT OUR PLANT IN THE FORM OF MECHANICAL, METALLURGICAL AND/OR CHEMICAL TEST REPORTS AND INSPECTION RECORDS, AND IS AVAILABLE FOR BUYERS REVIEW.

DATE OF EXECUTION: 11/14/12

SIGNATURE: Tod F. Polidori

TOD F. POLIDORI

TITLE: Q.A. MANAGER

Form #BIC015
Rev 11/97

Order No: 3432235
Time 10:13:08

FRY STEEL COMPANY
Registered ISO 9001
13325 MOLETTE ST.
SANTA FE SPRINGS, CA 90670
(562) 802-2721

B04163
Cust. NO.: 22883
P.O. NO.:

CERTIFICATE OF COMPLIANCE

BUTLER INC ***
1600 W 166TH ST
** MAIL OUT INVOICES **
GARDENA CA 90247-4704

ROOKE MFG
3360 W HARVARD ST
SANTA ANA CA 92704-3920

06/28/12

QTY	--DESCRIPTION--	--ITEM CODE--	--HEAT NUMBER--
	CG 431 ANN AMS 5628 GREEN/YELLOW		
26	BARS .510"RD 12'RL	4290	G18870
	ONE HEAT LOT		
100	BARS 1/4"RD 12'RL	4200	G18835
	ONE HEAT LOT USE HT# G18835		
59	BARS .265"RD 12'RL	4210	G18835
	ONE HT LOT		

REVIEWED BY: JB

DATE: 7-6-12

NOTICE

A COPY OF THE ORIGINAL MILL CERTIFICATION IS ATTACHED*

CHEMICALS & PHYSICALS ARE REPORTED THAT WILL MEET THE SPECIFICATIONS SHOWN ON THE CERTIFICATE.
EXCEPTIONS TO SPECIFICATIONS SHOULD BE SHOWN ON THE CERTIFICATION.

AUTOMATIC EXCEPTIONS TO THE SPECS LISTED ARE: LINE MARKING AND INSPECTION(I.E. MAG., SONIC,ETC.)

WE SUGGEST CONSULTING AN EXPERT ABOUT RELATED INSPECTION, PRIOR TO ALTERING THE MATERIAL FROM THE AS SHIPPED/RECEIVED
CONDITION. "DEFECT FREE" MATERIAL CAN NOT BE GUARANTEED WITHOUT PRIOR INSPECTION APPROPRIATE TO APPLICATION.

**NO WELD REPAIR HAS BEEN PERFORMED AND THIS MATERIAL IS FREE FROM MERCURY AND RADIUM
CONTAMINATION AT TIME OF SHIPMENT**

The willful recording of false, fictitious or fraudulent statements on this document may result as a felony under federal statutes.
*WHEN APPLICABLE

MAT'L USED
FOR LOT #

15544

Chip Sandoval
CHIP SANDOVAL - Q.C. MANAGER



Dunkirk Specialty Steel, LLC

A Universal Stainless Company

P.O. Box 319

830 Brigham Rd.

Dunkirk, NY 14048

Quality System Registered to
ISO9001 and AS9100

Material Certification

ILL ORDER: 0042386
ART NUMBER: S#4200
O. NUMBER: 46809-25

P.O. DATE: 11/22/2011

PAGE NUMBER: 1 of 1

PRINTED: 4/20/12 07:26

S FRY STEEL COMPANY
O T P.O. BOX 4048
L O
D
SANTA FE SPRINGS, CA 90670

S FRY STEEL CO
H T C/O C.M.I. FREIGHT TRANS
I O 4201 WEST 36TH ST
P
CHICAGO, IL 60623

Material Description: STAINLESS STEEL ROUND BAR 431 EAF+AOD ANNEALED CENTERLESS GROUND AMS 2303F, ASTM A484-10, MIL-S-18732D, AMS-S-18732B, AMS 5628F, McDonnell Douglas DMS-1565G (except sonic), Hi Shear #115J (Type II, chemistry only), Federal QQ-S-763C Am. 2 (431 cond. A, exc. hard. & impact), waive CLM, ASTM A276-10 (431).

Size: .2500 DIAM X 132.0000 MIN/

156.0000 MAX RANDOM LENGTH

Heat Number	C	0.15	MN	0.60	SI	0.35	S	0.004	P	0.020
G18935	CR	16.12	W	<0.05	V	0.03	NI	2.19	MO	0.06
	CO	<0.05	CU	0.15	SN	0.010	PB		CB	0.02
	TA		AL	<0.01	TI	<0.01	FE		B	
	O		MG		CA		SE		2R	
	AG		BI		N	0.048	H		CQ	

HARDNESS (AS SHIPPED): 247 BHN

TENSILE CAPABILITY: 1875F/1HR/OQ+1175F/3HR/AC

T/S KSI	Y/S KSI	VEL
152.4	114.7	18.9

REVIEWED BY: JB A 5

DATE: 7-6-12

TENSILE CAPABILITY: 1875F/1HR/OQ + -100F/2HR/AC+550F/2HR/AC + 550F/2HR/AC

T/S KSI	Y/S KSI	VEL	WR/A
214.9	158.4	16.0	59.0

HARDENABILITY: Rc 49.0

MICRO TEST: ACCEPTABLE

MACRO ETCH TEST: ACCEPTABLE

GRAIN SIZE: 8

FERRITE: <4%

MAGNETIC PARTICLE F/S = 0/0

KNOWINGLY RECORDING FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.

FRY STEEL CO. CERTIFIES THAT THIS IS
A TRUE COPY OF THE ORIGINAL MILL TEST
REPORT NOW ON FILE
RECEIVED AND INSPECTED

S# 4200

MELT SOURCE: UNIVERSAL/DUNKIRK

CHEMICAL BALANCE IS Fe

MATERIAL MELTED IN THE USA BY UNIVERSAL STAINLESS & ALLOY PRODUCTS, BRIDGEVILLE, PA

MATERIAL MANUFACTURED IN THE USA

MAY 03 2012

BY *Chip Sandoval*
CHIP SANDOVAL - Q.C. MANAGER

MATL USED
FOR LOT # 15544

/S/John M. Berry

/S/John M. Berry

04/20/12

Prepared by: John M. Berry, QA

John M. Berry, QA Technician

Date

Melted and manufactured in compliance with DFARS 252.225-7014 ALT 1. Melted by USAF in Bridgeville, PA., USA. Certification IAW DIN 50 049 / EN 10204 3: Material complies with EU directive 2002/95/EC (RoHS). The test results shown are certified to be a correct statement of records that were derived from testing samples of the material. Results meet applicable specifications. No welding was performed on the material supplied on this order. Material is free from mercury contamination. Material is of NAFTA origin. This material was produced under the Dunkirk Specialty Steel Quality Management System documented in QP Manual, Rev. 6 dated 1/6/2012, conforming to NCA-3800. Material testing was performed as applicable in accordance with ASTM A370, A604, E8, E10, E18, E23. Intentional or fraudulent statements on this document may be punished as a felony under federal


CONTINENTAL

TREATING, INC.

BUTLER INC

1500 W 166TH STREET
GARDENA, CA 90247-470410643 S. NORWALK BL.
SANTA FE SPRINGS
CALIFORNIA 90670
562-944-8808
800-622-6624
FAX 562-944-1499
www.continentalht.com**CERTIFICATION**CERTIFICATION NO
616534BUTLER INC
SHIP TO
1600 W 166TH STREET
GARDENA, CA 90247-4704

CUSTOMER NUMBER 0047500	DATE RECEIVED 05/26/12	CUSTOMER P.O. NUMBER 22925	CUSTOMER SHIPPER	
QUANTITY 1319	WEIGHT 98	PART NUMBER / DESCRIPTION AN4C47A REV.2 LOT# 15544 HEAT# G18835 END USER: C.O.R.E. H/T, 125-145 KSI PER P.O.		
MATERIAL 431 S/S		HARDNESS 26-32 HRC	MAX-CROSS SECTION .250	CASE DEPTH
SPECIFICATIONS AMS 2759/5 B AMS-H 6875 B				

PROCESS	SPEC TEMP	SPEC TIME	EQUIP.	ACT TEMP	TIME IN	TIME AT-HEAT	TIME OUT	ATMOS DEWPT	Q-MED & TEMP	D/
RACK VERT			RACK		.50	Y				10/1
PRECLEAN	140	:05	WASH	140	18:40	18:40	18:45	AIR	A/C	10/1
LOADCOUPLE			WIRE		.08	Y				10/1
SET V P			ATMOS		.02	Y				10/1
AUSTENITIE	1875	:45	V1	1875	20:49	00:00	00:45	VAC	OIL	10/1
SUBZERO	-100	2:00	CB3	-100	02:55	03:10	05:10	NIT	A/W	10/1
TEMPER 15	1125	3:00	D12	1125	12:35	13:30	16:30	AIR	A/C	10/1
TEMPER 15	1125	3:00	D12	1125	00:25	01:20	04:20	AIR	A/C	10/1
GLASS BEAD			B6		1.00	Y				10/1

HARDNESS VALUES, AS REPORTED, ARE CONVERTED VALUES FROM READINGS
TAKEN ON THE HRA SCALE USING ASTM E 140

REVIEWED BY:

DATE: 10-16-12

JB
A 5

HARDNESS: 28-30 HRC QTY TESTED: 15 QTY ACCT: 1319 QTY REJT: 0

INSPECTOR
WALTER WILLIAMS JR.DATE
10/12/12

JIMMY MARTINEZ for DON LOWMY

This Process Certification covers thermal processing and/or hardness testing only. No particular mechanical properties of any material should be assumed, or are implied, as a result of the thermal processing and/or hardness testing on this Process Certification. Material processed in a mercury-, radium- and asbestos-free environment. Unless otherwise specified above, for all AMS material specifications, no qualification or periodic testing has been performed. ALL FURNACES CERTIFIED TO MEET THE REQUIREMENTS OF AMS-H-6875, CURRENT REVISION. HARDNESS TESTING PERFORMED TO THE LATEST REVISION OF ASTM E 384, ASTM E 10, ASTM E 110, ASTM E 18, ASTM E 140 AND ASTM A 370.



Element Materials Technology P 714 892 1961
15062 Bolsa Chica F 714 892 8159
Huntington Beach, CA T 888 786 7555
92649-1023 USA info.hb@element.com
element.com

Contact: Tod Polidori
Butler, Inc.
1600 West 166th Street
GARDENA, CA 90247

TEST CERTIFICATE — EAR-CONTROLLED DATA

Date: 11/9/2012
Purchase Order Number: 24122
Work Order Number: BUT004-11-07-02032-1

Part No.:	AN4C47A REV. 2
Lot No.:	15544
Heat No.:	G18835
Material:	431
Specification:	NASM6812-3

FASTENER EVALUATION — STAINLESS STEEL

Number of Pieces: 5
Etchant:
Micro: Vilella's
Temperature: Ambient
Magnification: 100X/200X
Macro: Vilella's
Temperature: Ambient
Magnification: 20X
Grain Flow:
Head: Grain flow follows the contour of the head. (Acceptable)
Head to Shank Fillet: Grain flow follows the contour of the head to shank fillet. (Acceptable)
Threads: Grain flow follows the contour of the threads. (Acceptable)
Cracks: The entire sample shows no evidence of cracks.
Discontinuities / Defects:
Head: No discontinuities / defects found.
Threads:
Crest Laps: 0.003" (Within limits)
Flank Laps: No discontinuities / defects found.
Root Laps: No discontinuities / defects found.
Grain Growth: None
Grain Size: ASTM 7.0
Surface Condition on Head: No surface contamination (IGA) found.
Surface Condition on Threads: No surface contamination (IGA) found.
Microstructure: Exhibits fine tempered martensite with no visible carbide precipitation in the grain boundaries.
Surface Hardening: None except as created in cold working rolling of threads.

MATERIAL CONFORMS TO SPECIFICATION

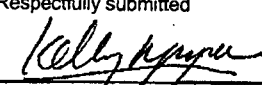
This document contains technical data whose export and re-export/ retransfer is subject to control by the U.S. Department of Commerce under the Export Administration Act and the Export Administration Regulations. The Department of Commerce's prior written approval may be required for the export or re-export/retransfer of such technical data to any foreign person, foreign entity or foreign organization whether in the United States or abroad.

REVIEWED BY: 

Respectfully submitted

DATE: 11-9-12

15062 Bolsa Chica, Huntington Beach, CA 92649
(714) 892-1961 ph • (714) 892-8159 fax www.element.com


Kelly Nguyen
Senior Quality Administrator

The information contained in this certification represents only the material submitted and is certified only for the quantities tested. Reproduction except in full is reserved pending written approval. The recording of false, fictitious, or fraudulent statements or entries on the certificate may be punishable as a felony under federal law. All testing was performed in a mercury free environment. **All testing performed in accordance with the latest edition of the applicable ASTM, or other Federal Test Method in effect at the time of test.**

idcap

HADD-CO INSPECTION LAB

2420 Amsler Street, Torrance CA 90505

Toll Free: (866) 339-8472 Phone: (310) 325-7620 Fax: (310) 325-9655

www.haddco.com Email: NDT@haddco.com

NO 14527

Sold To

BUTLER, INC
1500 W 166TH ST
GARDENA CA 90249

P.O. Number

24072

Job/Lot #

15544

Completion Date

11/6/12

CERTIFICATION

QUANTITY

PART NUMBER

DESCRIPTION

32 AN4047A REV 2

MPI PER ASTM-E-1444M-11

NASM 6812-3

MATL 431 NOT PLATED

HEAT# G18835

NO REJECTS

REVIEWED BY:

4/8
13

DATE: 11-9-12

This is to certify that 100% of the parts under subject purchase order have been inspected by Magnetic Particle Inspection in accordance with all applicable and/or purchase order requirements.

Inspector:

TL Jones

LANES LEVEL 1



NOTE: Altering of this certification renders it void.

Allblack Company, LLC

13090 Park St.
Santa Fe Springs, CA 90670
Phone: (562) 946-2955
Fax: (562) 946-6665

Certificate of Conformance

To: Butler Inc.
1600 West 166th Street
Gardena, CA 90247
United States

From: Allblack Company, LLC
13090 Park St.
Santa Fe Springs, CA 90670

Packing List No: 325755
Shipping Date: 11/09/12

Today's Date: 11/09/12
PO Number: 24081

MERCURY FREE PROCESS

Quantity	Shipped	Unit	Description	Job Number
1	LOT	PASSIVATE PER AMS 2700E 1239PCS. OF P/N AN4C47A REV 2 LOT#15544 HT#G18835 MATL:431, 2PNS. 88#	440610	
1	EA	FUEL FEE	440611	

GENTLEMEN: This is to certify that the following articles have been processed and/or inspected as indicated above in accordance with military standards and specifications. If testing is not noted then no testing was performed. If a specification is not called out on the purchase order, then the process was performed per best commercial practice.

REVIEWED BY:

JB
A 5

DATE: 11-13-12




Inspector's Initials
Allblack Company, LLC



**PERRY JOHNSON
REGISTRARS, INC.**
ISO 9001 REGISTERED

BUTLER INC.

1600 W. 166th STREET
GARDENA, CALIFORNIA 90247
(310) 323-3114 / FAX (310) 324-0914



**PERRY JOHNSON
REGISTRARS, INC.**
ISO 9001 REGISTERED

CERTIFIED TEST REPORT

CAGE CODE: 59053

PART NO: AN4C47A REV: 2
LOT NO: 15544
HEAT NO: G18835
MAT'L: 431

PROCUREMENT SPEC: NASM6812 REV: 3
LOT SIZE: 1237
TEST DATE: 11/13/12
CERTIFICATION NO: 4612

Test type: **Rockwell hardness**

Test value: N/A

Test method:

Butler procedure no:

Results:

1.	5.	9.	13.	17.	21.	25.	29.
2.	6.	10.	14.	18.	22.	26.	30.
3.	7.	11.	15.	19.	23.	27.	31.
4.	8.	12.	16.	20.	24.	28.	32.

Technician: _____

Stamp: _____

Test type: **Axial tensile**

Test value: 4080 lbs min

Test method: NASM1312-8

Butler procedure no: BIQOP-5-8-4

Results:

1. 6237 lbs	5. 6299 lbs	9.	13.	17.	21.	25.	29.
2. 6339 lbs	6.	10.	14.	18.	22.	26.	30.
3. 6394 lbs	7.	11.	15.	19.	23.	27.	31.
4. 6265 lbs	8.	12.	16.	20.	24.	28.	32.

Technician: P. Ron
Flavio Ron

Stamp:

Test type: **Double shear**

Test value: 7360 lbs min

Test method: NASM1312-13

Butler procedure no: BIQOP-5-8-5

Results:

1. 8849 lbs	5. 8885 lbs	9.	13.	17.	21.	25.	29.
2. 8947 lbs	6.	10.	14.	18.	22.	26.	30.
3. 9024 lbs	7.	11.	15.	19.	23.	27.	31.
4. 8944 lbs	8.	12.	16.	20.	24.	28.	32.

Technician: P. Ron
Flavio Ron

Stamp:

Test type: **Recess torque**

Test value: N/A

Test method:

Butler procedure no:

Deformation allowable:

Installation:

Removal:

Sample size:

Results:

Technician: _____

Stamp: _____

Test type: **Magnetic permeability**

Test value: N/A

Test method:

Butler procedure no:

Results:

Sample size:

Technician: _____

Stamp: _____

Material, as tested, conforms to specification requirements. The information on this report represents only the material tested. This report shall not be reproduced except in full without the written approval of Butler Inc.